

FortiManager - Upgrading FortiGate Devices

Version 5.6

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FortiManager 5.6 Upgrading FortiGate Devices

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Change Log

Date	Change Description
2018-07-04	Initial release.

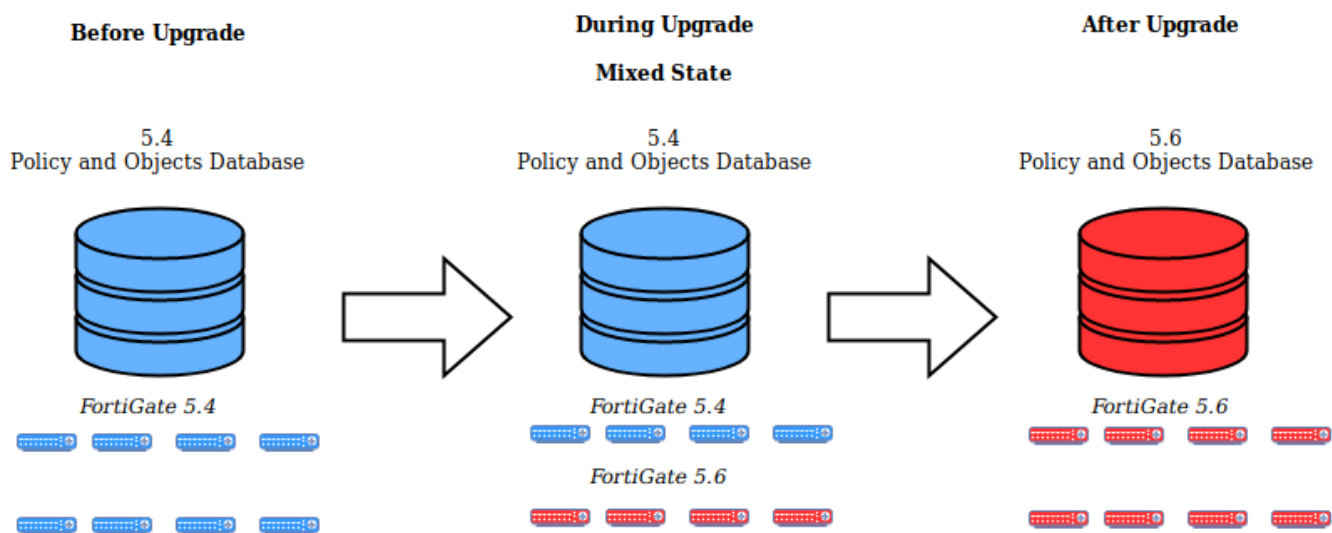
Introduction

FortiManager can manage multiple FortiGate versions. This document explains upgrading FortiGate devices from FortiManager.



It is assumed that you are running the version of FortiManager that supports the FortiGate devices you are managing. Upgrading FortiGate devices from version 5.4 to 5.6 is used as an example.

In large deployments, the upgrade process can take a long time resulting in a situation where multiple FortiGate devices co-exist in a mixed state.



Upgrading FortiGate devices

To upgrade all FortiGate devices simultaneously from FortiManager:

1. Log on to FortiManager.
2. Go to *Device Manager > Firmware*.
3. Select all the FortiGate devices and click *Upgrade*.
4. In the *Upgrade Firmware* dialog, go to the *Upgrade to* drop-down. Choose the firmware from the *FortiGuard Images*. Click *OK*.

FortiManager downloads the firmware image from FortiGuard server and upgrades the selected FortiGate devices. The *Upgrade Firmware Task* dialog shows the progress of the upgrade.

5. Click *Close* after the upgrade is complete.

After each FortiGate device is upgraded to 5.6, FortiManager will automatically add a revision into revision history through auto-update. The upgraded FortiGate devices are visible in *Device Manager*.

To upgrade FortiGate devices directly:

If required, you can upgrade FortiGate devices directly.

1. Log on to FortiGate that has FortiOS version 5.4 installed.
2. In *System Information > Firmware*, click *Update*.
3. Click *Browse* in *Upload Firmware*.
4. Browse to select the FortiOS version 5.6 firmware file and click *Open*.

The message *A valid upgrade path cannot be determined for manually uploaded firmware. Ensure that upgrading to FortiOS v5.6.x build xxxx from FortiOS v5.4.x build xxxx is supported* is shown.

5. Click *Backup config and upgrade*.

The message *Upgrading the firmware will cause the system to reboot. Are you sure you want to continue?* is shown.

6. Click *Continue*.

The new firmware is applied and FortiGate reboots.

After each FortiGate device is upgraded to 5.6, FortiManager will automatically add a revision into revision history through auto-update. The upgraded FortiGate devices are visible in *Device Manager*.

Mixed State:

A mixed state is when some FortiGate devices are upgraded to version 5.6 and the rest are version 5.4:

Here's a summary of what you can do and cannot do in a mixed state:

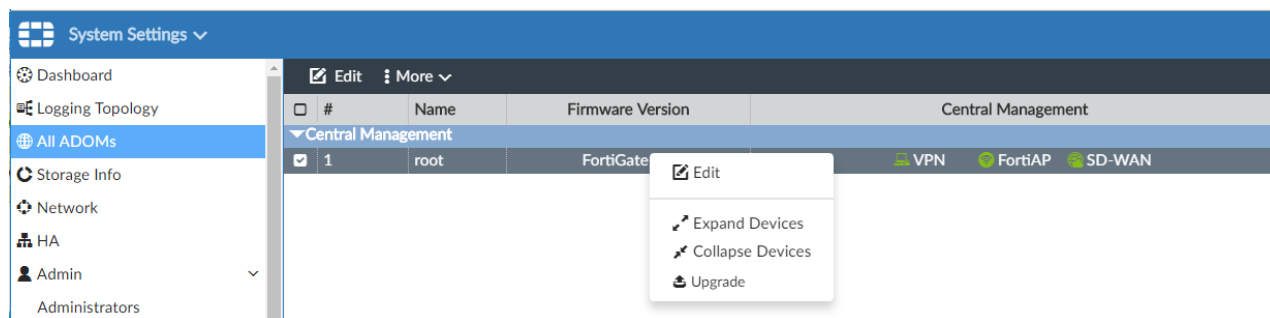
Actions not Recommended	Actions Recommended
Importing a policy You cannot import a policy from a higher device database (5.6) to a lower Policy and Objects database (5.4).	Installing a policy When installing a lower version of the Policy Package (5.4) to a higher version of FortiOS (5.6), an upgrade code is applied to the device database on the FortiGate device.
	Installing device settings
	Add VDOMs
	Assign provisioning templates
	Run scripts

Upgrading Policy and Objects Database

Before upgrading the Policy and Objects database from 5.4. to 5.6, you must upgrade all of the individual FortiGate devices.

To upgrade policy and objects database:

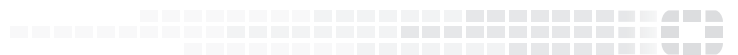
1. Log on to FortiManager.
2. Go to *System Settings > All ADOMs*.



3. Right-click *root* and select *Upgrade*.
The Policy and Objects database is now upgraded to 5.6.



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